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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/578,155		05/23/2000	Michael R. Krause	10991833-1	4285
22879	7590	03/30/2006		EXAM	INER
		ARD COMPANY	DINH, DUNG C		
		04 E. HARMONY ROPERTY ADMINIS	ART UNIT	PAPER NUMBER	
	FORT COLLINS, CO 80527-2400				, -
				DATE MAILED: 03/30/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/578,155	KRAUSE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Dung Dinh	2153					
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet with	the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING  Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory perio  Failure to reply within the set or extended period for reply will, by statuent Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA  1.136(a). In no event, however, may a reply  d will apply and will expire SIX (6) MONTHS  ute, cause the application to become ABANI	TION. be timely filed From the mailing date of this communication. DONED (35 U.S.C. § 133).					
Status		÷					
<ul> <li>1) Responsive to communication(s) filed on 11</li> <li>2a) This action is FINAL. 2b) Th</li> <li>3) Since this application is in condition for allow closed in accordance with the practice under</li> </ul>	nis action is non-final. vance except for formal matters						
Disposition of Claims							
4)  Claim(s) <u>1-45</u> is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5)  Claim(s) is/are allowed.  6)  Claim(s) <u>1-45</u> is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and the striction and	rawn from consideration.						
Application Papers							
9) The specification is objected to by the Examir	ner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
•	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents.  2. Certified copies of the priority documents.  3. Copies of the certified copies of the priority documents.  * See the attached detailed Office action for a list.	nts have been received.  nts have been received in App iority documents have been re- eau (PCT Rule 17.2(a)).	lication No ceived in this National Stage					
* See the attached detailed Office action for a list of the certified copies not received.							
		,					
Attachment(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0-Paper No(s)/Mail Date 11/1/8/05.</li> </ul>	Paper No(s)/M	lail Date mal Patent Application (PTO-152)					

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## DETAILED ACTION

## Response to Arguments

Applicant's arguments filed 1/11/06 have been fully considered but they are not persuasive.

Applicant argued that Wilson does not teach multiplexing unit of work produced by a source application and demultiplexing at the destination device back into unit of works. The argument is not persuasive. Wilson teach transmitting data from a source host to a destination storage node over an Ethernet network (see fig.1C). Data transmit in the Ethernet network is a series of bit streams. Hence, it is inherent that transmission of data over an Ethernet network involves multiplexing data bytes at the source (unit of works) into serial bit stream and the destination demultiplexing the serial bit stream back into data bytes.

Applicant argued that Wilson does not teach implementing a reliable datagram service between the source and the destination. The argument is not persuasive because "reliable datagram service" as recited in the claims is nothing more than a statement of purpose or at best a statement of intended result. In claim 1, the phrase "wherein the source ... together implement a reliable datagram service ..." does not add any further limitation to the rest of the claim. The "reliable

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datagram service" is the functional limitations recited prior in the claim. Therefore, the term "reliable datagram service" as used in the claim served nothing more than a label for the protocol. Applicant chooses to call his protocol "reliable datagram protocol service". Wilson chooses to call his as "data stream service". The two protocols are the equivalent if the steps or functions required by the protocols are the same; not what the protocol is labeled as. Wilson 'stream service' guarantees delivery and order of packets (col.17 line 45 to col. 18 line 17). Therefore, Wilson 'stream service' implements a reliable protocol as claimed.

Applicant compared the "reliable datagram service" with the conventional unreliable datagram service. Applicant stated the conventional datagram service (e.g. UDP) does not guaranteed order of units of work whereas Applicant's protocol does. This is true because by conventional usage 'datagram' means an independent, self-contained entity of data that does not rely on earlier exchange between the source and destination. (see RFC 1594 - glossary p.33). Applicant's "reliable datagram service" requires a sequence order numbering of the data packets and provide for acknowledgement of missing packets. Hence, despite applicant labeling this protocol as a 'datagram' service, this service is not datagram service (as it is conventionally

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defined) but is akin to the 'stream service' as disclosed by Wilson. Therefore, the term 'datagram' as used in claims 1 and 26 is merely a label and does not serve to further limit the claim.

Applicant argued the Wilson and Shay combined does not teach the queue holding transmitted but not acknowledge. Applicant argued that Wilson teaches a Windowing but not a sliding window as that of Shay. Applicant argued that Shay teaches sliding window for a reliable connection not for a datagram service. The argument is not persuasive because as stated above, the term 'datagram' as used in the claims does not provide further limitation to the claim but serves only as a label. Regarding the windowing of Wilson. Applicant argued that Wilson window is not sliding window as that disclosed by Shay by citing to col.18 lines 17-23. That section discloses the receiver using the window value to know how big of a buffer its need to allocate. This disclosure in no way saying that this is not a sliding window. Wilson does not specifically uses the word 'sliding window'. However the sliding window functionality is explicitly disclosed from the usage of the NAK and the retransmission of the packets higher than indicated by the NAK as described on col. 18 lines 1-16. That portion describes the function of a sliding window which is a queue

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holding data not yet acknowledge and data yet to be transmit (as evidence by the disclosure of Shay).

Claims 1-45 are pending for examination. Claims 1-45 are rejected as stated in the prior office action.

## Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Dinh whose telephone number is (571) 272-3943. The examiner can normally be reached on Monday-Friday from 7:00 AM - 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenton Burgess can be reached at (571) 272-3949.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dung Dinh Primary Examiner

March 24, 2006